STATE FOREST LAND
EVIRONMENTAL CHECKLIST

Purpose of Checklist:

The State Environmental Policy Act (SEPA), chapter 43.21C RCW, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An environmental impact statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. The purpose of this checklist is to provide information to help you and the agency identify impacts from your proposal (and to reduce or avoid impacts from the proposal, if it can be done) and to help the agency decided whether an EIS is required.

Instructions for Applicants:

This environmental checklist asks you to describe some basic information about your proposal. Governmental agencies use this checklist to determine whether the environmental impacts of your proposal are significant, requiring preparation of an EIS. Answer the questions briefly, with the most precise information known, or give the best description you can. Highlighted questions are supplemental to the standard SEPA checklist. These questions look at the proposed project in relationship to the surrounding landscape. Adjacency and landscape/watershed-administrative-unit (WAU) maps for this proposal are available on the DNR Internet website at http://www.dnr.wa.gov under "SEPA Center." These maps may also be reviewed at the DNR regional office responsible for the proposal. This checklist is to be used for SEPA evaluation of state forest land activities.

You must answer each question accurately and carefully, to the best of your knowledge. In most cases, you should be able to answer the questions from your own observations or project plans without the need to hire experts. If you really do not know the answer, or if a question does not apply to your proposal, write "do not know" or "does not apply." Complete answers to the questions now may avoid unnecessary delays later. All of the questions are intended to address the complete proposal as described by your response to question A-11. The proposal acres in question A-11 may cover a larger area than the attached forest practice application acres, or the actual timber sale acres.

Some questions ask about governmental regulations, such as zoning, shoreline, and landmark designations. Answer these questions if you can. If you have problems, the governmental agencies can assist you.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Use of checklist for nonproject proposals:

Complete this checklist for nonproject proposals, even though questions may be answered " does not apply." IN ADDITION, complete the SUPPLEMENTAL SHEET FOR NON PROJECT ACTIONS (part D).

For nonproject actions, the references in the checklist to the words "project," "applicant," and "property or site" should be read as "proposal," "proposer" and "affected geographic area," respectively.

A. BACKGROUND

1. Name of proposed project, if applicable:

   Timber Sale Name: **WEIHL RIDGE** Agreement #: **30-074492**

2. Name of applicant: **Department of Natural Resources**

3. Address and phone number of applicant and contact person: **Dept of Natural Resources, ATTN: John Haddon, 713 Bowers Rd, Ellensburg WA 98926, (509) 925-8510**

4. Date checklist prepared: **10/14/2003**

5. Agency requesting checklist: **Department of Natural Resources**

6. Proposed timing or schedule (including phasing, if applicable):

   a. Auction Date: **Fall 2003**
   b. Planned contract end date (but may be extended): **Fall 2005**
   c. Phasing: **N/A**

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

   Timber Sale

   a. Site preparation: **Seed bed preparation will occur through harvest operations.**

   b. Regeneration Method: **Unit #1 will be naturally regenerated, while Units #2, #3 and #4 will be hand planted within two years after harvest.**

   c. Vegetation Management: **Area will be assessed after harvest.**

   d. Thinning: **Area will be assessed within 15 years and treated as necessary for stocking control and species composition.**

   Roads: **There will be 680' of new construction, 13325' of reconstruction and 28145' of maintenance.**

   Rock Pits and/or Sale: **None**

   Other**:** **None**

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

☐303 (d) – listed water body in WAU: ☐temp ☐sediment ☐completed TMDL (total maximum daily load):
☐Landscape plan:
☐Watershed analysis:
☐Interdisciplinary team (ID Team) report:
☒Road design plan:
☒Wildlife report:
☐Geotechnical report:
☒Other specialist report(s): **Silvilculturist**
☐Memorandum of understanding (sportsmen's groups, neighborhood associations, tribes, etc.):
☐Rock pit plan:
☒Other: **a) Forest Resource Plan, Environmental Impact Statement adopted July 31, 1992, b) State Soil Survey, c) DNR Habitat Conservation Plan adopted January 30, 1997, d) A Road Maintenance and Abandonment Plan prepared by a Professional Engineer, e) The Department's Forestry Handbook, f) Teanaway River Area Logging Map prepared by Pacific Biodiversity Institute (2/2003)**

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain. **No**

10. List any government approvals or permits that will be needed for your proposal, if known.

☒ HPA ☒ Burning permit ☐Shoreline permit ☒ Incidental take permit ☒ FPA # 2702790 ☐Other:

11. Give brief, complete description of our proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include specific information on project description.)

a. Complete proposal description:

This proposal is on the east side of the Cascades in a historically pine dominant area. Due to decades of fire suppression and past forest management activities, much of this has been overstocked with historically incorrect species. Overstocked stands have higher susceptibility to both fire and pathogens such as: spruce budworm, balsam wooly adelgid, dwarf mistletoe, and root rot. Under current conditions, Douglas-fir will continue to replace and compete with ponderosa pine until overstocking and disease become so prevalent as to stagnate the stand and/or cause mortality.

The original proposal included 640 acres. After field reconnaissance approximately 84 acres were removed from harvest for Riparian Management Zones (RMZ) and an untreated area for a total of 556 acres in the proposal. After complete field review we have decided to harvest this sale using our Contract Harvesting process.

This harvest will include four units. Unit #1 will be managed for ponderosa pine and will consist of a partial cut removing the overstocked timber, spacing trees out to slow or stop the rate of pathogen travel. An average of twenty-three trees left to the acre will allow natural regeneration to establish over 373 acres. Logging disturbance will allow the ponderosa pine to regenerate. Ultimately this stand will remain a mixed stand of Douglas-fir and ponderosa pine but future management activities will have to replace fire to keep ponderosa pine in dominance.

Units #2, #3 and #4 will be managed for a mixed stand of Douglas-fir and ponderosa pine using regeneration harvest methods. Units #2, #3 and #4 have 22, 91, and 70 acres respectively. An average of twelve to fifteen of the healthiest and best trees per acre will remain for structure as well as cover for the trees to be hand planted in the units.

b. Timber stand description pre-harvest (include major timber species and origin date), type of harvest, overall unit objectives.

Unit #1 lies on the northern 2/3 of the section. The majority of the stand is southerly in exposure, with draws and swales running north and south giving some SE/SW exposures. Elevations run between 2500 feet to 3000 feet at the highest points. The plant association for this unit is Douglas Fir/ Pine grass (PSME/ CARU). The stand is primarily composed of ponderosa pine with Douglas-fir scattered throughout. Also within the stand are grand fir, larch, and lodgepole pine, though in extremely few numbers. The majority of the timber ages range from small seedlings to timber around 80 years in age with some ages at 150+ years in age. There are various pathogens within the stand, including ponderosa pine mistletoe, various kinds of beetle kill, and root rot. There exists a seasonal wet spot in the NE corner of the unit that has been protected. The stand will be harvested using ground based logging systems. An average of the healthiest and largest 23 trees, with a diameter range from 10 to 28 inches, have been left for structure and regeneration. The unit objective is to create a stand of healthy pine dominant overstory. Leave trees are spaced to reduce the spread of western bark beetle and armillaria root rot. Stand structure will be varied leaving both the largest and the most vigorous intermediates.

Unit #2, #3 and #4 lie in the southern 1/3 of the section. The majority of the stand is northerly in exposure. Elevations run between 2500 feet to 2700 feet. The plant association for all three units is Douglas-fir/ snowberry/ pine grass (PSME/SYAL/CARU). The stand is primarily overstocked with Douglas-fir with scattered ponderosa pine throughout. Very few larch are located within the units. The average age of the stand is approximately 80 years with occasional 150+ year old trees. There are various pathogens within the stand; Douglas-fir and ponderosa pine mistletoe as well as western and mountain pine beetle kill and armillaria root rot in the ponderosa pine. The units will be harvested with ground-based systems. The objective of all three stands is to impede the rate of pathogens as well as produce a composition change from Douglas-fir to a mixed stand of Douglas-fir, ponderosa pine and larch. The area will be reforested with hand planted seedlings and logging disturbance will help promote some natural regeneration.

c. Road activity summary. See also attached forest practice application (FPA) for maps and more details.

Type of Activity	How Many	Length (feet) (Estimated)	Acres (Estimated)	Fish Barrier Removals (#)
Construction		**680**	**.53**	
Reconstruction		**13325**		
Maintenance		**28145**		
Abandonment		**0**	**0**	
Bridge Install/Replace	**0**			
Culvert Install/Replace (fish)	**0**			
Culvert Install/Replace (no fish)	**0**			

12. Location of proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist. (See attached timber sale map. See also color landscape/WAU map on the DNR website http://www.dnr.wa.gov under "SEPA Center.")

a. Legal description: **The Weihl Ridge Timber Sale is located in Section 16, Township 20 North, Range 16 East, W.M., in Kittitas County.**

b. Distance and direction from nearest town (include road names): **This sale lies approximately 9 miles by road NE of the town of Cle Elum off of the Red Bridge county road.**

c. Identify the watershed administrative unit (WAU), the WAU Sub-basin(s), and acres. (See also landscape/WAU map on DNR website http://www.dnr.wa.gov under " SEPA Center.")

WAU Name	WAU Acres	Proposal Acres
MASON CREEK	**27663**	**536**
LANNIGAN SPRINGS	**9933**	**20**

13. Discuss any known future activities not associated with this proposal that may result in a cumulative change in the environment when combined with the past and current proposal(s). (See digital ortho-photos for WAU and adjacency maps on DNR website http://www.dnr.wa.gov under "SEPA Center" for a broader landscape perspective.)
The proposal is located in both the Lannigan Springs and Mason Creek WAU's and is one of two sections the State owns in this township. This proposal involves approximately 2% of the Mason Creek and less than 1% of the Lannigan Springs WAU's. Across the WAU according to DNR's GIS Forest Practice Application database, as of October 14, 2003, there have been 1788 evenage acres and 1752 unevenage acres harvested within the Lannigan Springs WAU. There has been no harvest of any DNR land in this WAU during the same time period. Within the Mason Creek WAU there have been 2889 even age acres and 8381 uneven age acres harvested. There has been no evenage harvest and 1 acre of unevenaged harvest on DNR land in this WAU. Future Activities for the Weihl Ridge timber sale are a potential thinning to release regeneration throughout the sale. The no harvest regeneration buffer could potentially be harvested within 15 years once green up is established in the southern units.

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site (check one):

☐Flat, ☒ Rolling, ☐Hilly, ☐Steep Slopes, ☐Mountainous, ☐Other:

1) General description of the WAU or sub-basin(s) (landforms, climate, elevations, and forest vegetation zone).
The Mason Creek and Lannigan Springs WAU's consist primarily of rolling topography with steeper slopes found mainly in the creek drainages. The average annual precipitation for both WAU's ranges anywhere from 15 inches per year to 35 inches per year, with the majority of the acreage in the WAU's receiving 25 inches annually. The elevation for both WAU's range from 1800 feet to approximately 5000 feet, with ponderosa pine and Douglas-fir being the major timber types. There is some scattered larch located within the WAU at higher elevations.

2) Identify any difference between the proposal location and the general description of the WAU or sub-basin(s).
None

b. What is the steepest slope on the site (approximate percent slope)?
45% on approximately 5% of the sale.

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farmland. Note: The following table is created from state soil survey data. It is a roll-up of general soils information for the soils found in the entire sale area. It is only one of several site assessment tools used in conjunction with actual site inspections for slope stability concerns or erosion potential. It can help indicate potential for shallow, rapid soil movement, but often does not represent deeper soil sub-strata. The actual soils conditions in the sale area may vary considerably based on land-form shapes, presence of erosive situations, and other factors. The state soil survey is a compilation of various surveys with different standards.

State Soil Survey #	Soil Texture or Soil Complex Name	% Slope	Acres	Mass Wasting Potential	Erosion Potential
8041	LOAM	5-25	395	INSIGNIFICAN'T	MEDIUM
8042	LOAM	25-45	117	LOW	MEDIUM
0571	LOAM	10-40	24	MEDIUM	MEDIUM
8235	LOAM	45-65	12	MEDIUM	HIGH
8044	LOAM	45-65	8	MEDIUM	HIGH

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

1) Surface indications: **No**

2) Is there evidence of natural slope failures in the sub-basin(s)?
☒ No ☐Yes, type of failures (shallow vs. deep-seated) and failure site characteristics:

3) Are there slope failures in the sub-basin(s) associated with timber harvest activities or roads?
☒ No ☐Yes, type of failures (shallow vs. deep-seated) and failure site characteristics:
Associated management activity:

4) Is the proposed site similar to sites where slope failures have occurred previously in the sub-basin(s)?
☒ No ☐Yes, describe similarities between the conditions and activities on these sites:

5) Describe any slope stability protection measures (including sale boundary location, road, and harvest system decisions) incorporated into this proposal.

1) Areas of both the northeast and northwest boundaries were pulled back to gentler gradients to prevent any potential destabilization of slopes by harvest operations.
2) Skid trails will be water barred on steeper areas to direct runoff to the forest floor.
3) Timber haul will be limited to dry or frozen conditions.
4) All roads have been reviewed by a professional road engineer and have been included in the Region's Road Maintenance and Abandonment plan.
5) Grass seed and fertilizer will be applied to both the cut banks and fill slopes on all road construction and reconstruction as required in the contract.
6) Timber removed from the Equipment Limitation Zones (ELZ) will be directionally felled and skidded away from stream channels. Designated skid trails will also be used.
7) Skid trail locations will be approved by the Contract Administrator prior to use.

e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.
Approx. acreage new roads: **.53** Approx. acreage new landings: **10** Approx. acreage rock pit fills: **N/A** Fill source: **N/A**

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe. **Some erosion could occur in road construction with extreme wet events where saturation of soils could occur and some temporary movements of sediment into adjacent streams could occur.**

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)? Approximate percent of proposal in permanent road running surface (includes gravel roads): **None**

h. Propose measures to reduce or control erosion, or other impacts to the earth, if any: **See B.1d.5.**

2. Air

a. What types of emissions to the air would result from the proposal (i.e., dust from truck traffic, rock mining, crushing or hauling, automobile, odors, industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known. **Minor amounts of exhaust and road dust will be created during operation. Smoke would occur if the landing piles are burned but only for a short duration.**

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe. **No**

c. Proposed measures to reduce or control emissions or other impacts to air, if any: **Any pile burning will be done following the DNR Smoke Management Rules. Dust abatement may be required in areas along the haul route.**

3. Water

a. Surface:

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into. (See attached timber sale map and forest practice base maps.)
In Unit #1 there are four Type 5 streams. One Type 5 originates to the east of Spur 6 and flows to the north continuing on outside of the unit boundary. This stream has an unmarked 30' ELZ on both sides of the channel. The second Type 5 stream flows from the west to the east through the middle of the unit and has a 30' ELZ marked with Special Management Zone (SMZ) tags. The third Type 5 stream flows north to south and is tributary to the Type 5 stream in the middle of Unit #1. This third stream also has a 30' ELZ marked with SMZ tags. The fourth Type 5 stream flows from the west of Spur 5 to the east and is tributary to a Type 5 stream that separates Unit #1 from Unit #2, #3 and #4. The fourth stream has a 30' unmarked ELZ.

There is also a seasonal wet area (Type 5) in the northeast corner of Unit #1 that has a 50' ELZ marked with SMZ tags.

The Type 5 stream that flows through the untreated area originates in Unit #2. This stream has a 30' ELZ and is not marked on the ground except along the northern portion of Unit #3 and #4.

There is also one Type 5 stream in Unit #3 that flows from the west to the east, has an unmarked 30' ELZ and is tributary to another Type 5 stream that flows from the south to the north. This last stream separates Units #3 and #4 and is tributary to the Type 5 stream that flows through the untreated area. This last referenced stream is outside the sale boundary.

a) Downstream water bodies: **Teanaway River**

b) Complete the following riparian & wetland management zone table:

Wetland, Stream, Lake, Pond, or Saltwater Name (if any)	Water Type	Number (how many?)	Avg RMZ/WMZ Width in Feet (per side for streams)
Unnamed stream	**Type 5**	**7**	**30' ELZ**
Seasonal wet area	**Type 5**	**1**	**50' ELZ**

c) List RMZ/WMZ protection measures including silvicultural prescriptions, road-related RMZ/WMZ protection measures, and wind buffers.
A 300 foot no harvest area has been left between Units #1, #2, #3 and #4. This untreated area protects threeType 5 streams. All other Type 5 streams are protected by 30' ELZ. Timber harvest in these zones will be directionally felled away from the streams with designated skid trails to remove felled timber. The seasonal wet spot (approximately one acre) in the NE corner of Unit #1 has a 50' ELZ buffer with designated skid trails for timber removal.

2) Will the project require any work over, in, or adjacent to (within 200 feet) to the described waters? If yes, please describe and attach available plans.
☐No ☒ Yes (See RMZ/WMZ table above and attached timber sale map.)
Description (include culverts): **Falling and skidding will occur within 200 feet of described waters and directional felling will take place. In addition, all yarding and skidding will be away from stream channels. Stream crossings will be approved by the Contract Administrator prior to use.**

3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material. **None**

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known. (Include diversions for fish-passage culvert installation.)
☒ No Yes, description:

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.
☒ No ☐Yes, describe location:

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.
☒ No ☐Yes, type and volume:

7) Does the sub-basin contain soils or terrain susceptible to surface erosion and/or mass wasting? What is the potential for eroded material to enter surface water? **Unknown, sub-basin information is not available. No mass wasting potential has been identified in this area.**

8) Is there evidence of changes to the channels in the WAU and sub-basin(s) due to surface erosion or mass wasting (accelerated aggradations, erosion, decrease in large organic debris (LOD), change in channel dimensions)?
☒ No ☐Yes, describe changes and possible causes:

9) Could this proposal affect water quality based on the answers to the questions 1-8 above?
☒ No ☐Yes, explain:

10) What are the approximate road miles per square mile in the WAU and sub-basin(s**)? Within Mason Creek WAU there are 2.5 miles per square mile. Within Lannigan Springs WAU there are 4.3 miles per square mile.**

Are you aware of areas where forest roads or road ditches intercept sub-surface flow and deliver surface water to streams, rather than back to the forest floor?
☒ No ☐Yes, describe:

11) Is the proposal within a significant rain-on-snow (ROS) zone? If not, **STOP HERE** and go to question B-3-a-13 below. Use the WAU or sub-basin(s) for the ROS percentage questions below.
☒ No ☐Yes, approximate percent of WAU in significant ROS zone.
Approximate percent of sub-basin(s):

12) If the proposal is within the significant ROS zone, what is the approximate percentage of the WAU or sub-basin(s) within the significant ROS zone (all ownerships) that is (are) rated as hydrologically mature?

13) Is there evidence of changes to channels associated with peak flows in the WAU or sub-basin(s)?
☒ No ☐Yes, describe observations:

14) Based on your answers to questions B-3-a-10 through B-3-a-13 above, describe whether and how this proposal, in combination with other past, current, or reasonably foreseeable proposals in the WAU and sub-basin(s), may contribute to a peak flow impact. **There is no evidence that this proposal will increase peak flows. However, water flows may increase slightly during low flow periods due to decreased transpiration and interception.**

15) Is there water resource (public, domestic, agricultural, hatchery, etc.), or area of slope instability, downstream or downslope of the proposed activity that could be affected by changes in surface water amounts, quality, or movements as a result of this proposal?
☒ No ☐Yes, possible impacts:

16) Based on your answers to questions B-3-a-10 through B-3-a-15 above, note any protection measures addressing possible peak flow/flooding impacts. **N/A**

b. Ground Water:

1) Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose, and approximate quantities if known. **None**

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve. **None**

3) Is there a water resource use (public, domestic, agricultural, hatchery, etc.), or area of slope instability, downstream or down slope of the proposed activity that could be affected by changes in groundwater amounts, timing, or movements as a result this proposal?
☒ No ☐Yes, describe:

a) Note protection measures, if any.

c. Water Runoff (including storm water):

1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.
Surface rain and snowmelt are the primary methods of runoff. Water is collected as it pools toward the low-lying areas of the topography. This water flows down the existing channels toward the major water system, the Teanaway River.

2) Could waste materials enter ground or surface waters? If so, generally describe. **No**

a) Note protection measures, if any.

d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:
(See surface water, ground water, and water runoff sections above, questions B-3-a-1-c.) **See B.1.d.5.**

4. Plants

a. Check or circle types of vegetation found on the site:

☒ deciduous tree: ☐alder, ☐maple, ☒ aspen, ☐cottonwood, ☒ larch, ☐birch, ☐other:
☒ evergreen tree: ☒ Douglas fir, ☒ grand fir, ☐Pacific silver fir, ☒ ponderosa pine, ☒ lodgepole pine, ☐western hemlock, ☐mountain hemlock, ☐Englemann spruce, ☐Sitka spruce, ☐red cedar, ☐yellow cedar, ☐other:
☒ shrubs: ☐huckleberry, ☐salmonberry, ☐salal, ☒ other: **Snowberry**
☒ grass : **Pinegrass**
☐ pasture
☐ crop or grain
☐wet soil plants: ☐cattail, ☐buttercup, ☐bullrush, ☐skunk cabbage, ☐devil's club, ☐other:
☐water plants: ☐water lily, ☐eelgrass, ☐milfoil, ☐other:
☐other types of vegetation:
☐plant communities of concern:

b. What kind and amount of vegetation will be removed or altered? (See answers to questions A-11-a, A-11-b, B-3-a-1-b and B-3-a-1-c. The following sub-questions merely supplement those answers.)

1) Describe the species, age, and structural diversity of the timber types immediately adjacent to the removal area. (See landscape/WAU and adjacency maps on the DNR website at: http://www.dnr.wa.gov under "SEPA Center.")
All adjacent lands are private ownership and have had some level of harvest over the past decade. Unit #4 has had a timber harvest along the southern 1/3 of the eastern line approximately 10 to 15 years ago, leaving scattered Douglas-fir with regeneration from 4 to 10 feet in height. Units #2, #3 and #4 have had a selective harvest along the entire southern line approximately 25 years ago, leaving a well-spaced ponderosa pine stand. Unit #2 and Unit #1 has had a harvest approximately 10 years ago along the majority of the western line of the section (80%), leaving a majority of Douglas-fir. The north half of the eastern line along Unit #1 was selective harvested approximately 50 years ago, with a small portion of a harvest having occurred within the last 10-15 years.

2) Retention tree plan:
On Unit #1 an average of the healthiest and largest 23 trees, with a diameter range from 10 to 28 inches, have been left for structure and regeneration. On Unit #2, #3 and #4 an average of twelve to fifteen of the healthiest and best trees to the acre will remain for structure as well as cover for the hand planted trees in the units.

c. List threatened or endangered plant species known to be on or near the site. **None**

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:
We will be shifting the primary species on Units #2, #3 and #4 from Douglas-fir to a more historic mixed composition by planting ponderosa pine and larch seedlings. Douglas-fir shall intermix naturally. Also there shall be a component of larch on north facing slopes and benches. Unit #1 shall retain its ponderosa pine over story with natural regeneration of ponderosa pine and Douglas-fir. Certified weed free grass seed will be used on all areas to be grass seeded post harvest.

In a field visit with the Washington Environmental Council (WEC) they recommended this sale be sold as a contract logging sale to ensure better protection of the existing regeneration in open areas. The WEC also requested creation of one snag per acre by topping one of our planned leave trees. We have incorporated their recommendations into this proposal.

5. Animal

a. Circle or check any birds animals or unique habitats which have been observed on or near the site or are known to be on or near the site:

birds: ☒ hawk, ☐heron, ☐eagle, ☒ songbirds, ☐pigeon, ☐other:
mammals: ☒ deer, ☐bear, ☒ elk, ☐beaver, ☒ other: **Cougar**
fish: ☐bass, ☐salmon, ☐trout, ☐herring, ☐shellfish, ☐other:
unique habitats: ☐talus slopes, ☐caves, ☐cliffs, ☐oak woodlands, ☐balds, ☐mineral springs

b. List any threatened or endangered species known to be on or near the site (include federal- and state-listed species).
There is a Status 5 spotted owl (Orso Creek #744) which is located outside the proposal area.

c. Is the site part of a migration route? If so, explain.
☒Pacific flyaway ☐Other migration route: Explain if any boxes checked: **This is part of the Pacific Flyway migration route but is not used extensively by waterfowl**

d. Proposed measures to preserve or enhance wildlife, if any: **Wildlife Reserve Trees and Green Recruitment Trees will be left scattered throughout the sale area and clumped in the riparian areas. WRT'S and GRT's are a mix of ponderosa pine, Douglas-fir, larch, and some grand fir. This sale also has an untreated area between all the harvest units. Public access to the sale area is gated. This will help preserve snags left following harvest. The area will not be open to public firewood cutting. Commercial firewood salvage may be considered. See also B.4.d.**

1) Note existing or proposed protection measures, if any, for the complete proposal described in question A-11.
Species /Habitat: **Multiple Species** Protection Measures: **Wildlife Reserve Trees and Green Recruitment Trees will be left scattered throughout the sale area and clumped in the riparian areas. WRT'S and GRT's are a mix of ponderosa pine, Douglas-fir, larch and some grand fir. In addition, this proposal has an untreated area between all of the harvest units.**

6. Energy and Natural Resources

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc. **Does not apply**

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe. **Does not apply**

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any: **Does not apply**

7. Environmental Health

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe. **None**

1) Describe special emergency services that might be required. **The area covered by the proposal pays Forest Patrol Assessment to the DNR for wildfire suppression.**

2) Proposed measures to reduce or control environmental health hazards, if any: **None**

b. Noise

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)? **None**

2) What types and levels of noise would be created by or associated with the project on a short-term or long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from this site. **Road building, logging equipment as well as log trucks will create noise during working hours.**

3) Proposed measures to reduce or control noise impacts, if any: **None**

8. Land and Shoreline Use

a. What is the current use of the site and adjacent properties? (Site includes the complete proposal, e.g. rock pits and access roads.) **Timberland production**

b. Has the site been used for agriculture? If so, describe. **Historically the site has been used for livestock grazing but is currently not under lease.**

c. Describe any structures on the site. **None**

d. Will any structures be demolished? If so, what? **No**

e. What is the current zoning classification of the site? **Forestry**

f. What is the current comprehensive plan designation of the site? **Forestry**

g. If applicable, what is the current shoreline master program designation of the site? **None**

h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify. **No**

i. Approximately how many people would reside or work in the completed project? **None**

j. Approximately how many people would the completed project displace? **None**

k. Proposed measures to avoid or reduce displacement impacts, if any: **None**

l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any: **Long term forest management will continue to be consistent with Kittitas County Zoning and comprehensive plan designation.**

9. Housing

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing. **None**

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing. **None**

c. Proposed measures to reduce or control housing impacts, if any: **None**

10. Aesthetics

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principle exterior building material(s) proposed? **None**

b. What views in the immediate vicinity would be altered or obstructed? **None**

1) Is this proposal visible from a residential area, town, city, developed recreation site, or a scenic vista?
☒ No ☐Yes, viewing location:

2) Is this proposal visible from a major transportation or designated scenic corridor (county road, state or interstate highway, US route, river, or Columbia Gorge SMA)?
☒ No ☐Yes, scenic corridor name:

3) How will this proposal affect any views described in 1) or 2) above? **None**

c. Proposed measures to reduce or control aesthetic impacts, if any: **None**

11. Light and Glare

a. What type of light or glare will the proposal produce? What time of day would it mainly occur? **None**

b. Could light or glare from the finished project be a safety hazard or interfere with views? **No**

c. What existing off-site sources of light or glare may affect your proposal? **None**

d. Proposed measures to reduce or control light and glare impacts, if any: **None**

12. Recreation

a. What designated and informal recreational opportunities are in the immediate vicinity? **Road access by the public is prohibited by existing locked gates.**

b. Would the proposed project displace any existing recreational uses? If so, describe: **No**

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any: **None. Area is surrounded by private timberlands that are gated from the public.**

13. Historic and Cultural Preservation

a. Are there any places or objects listed on, or proposed for national, state, or local preservation registers known to be on or next to the site? If so, generally describe. **No**

b. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site. **There is evidence of past historic use.**

c. Proposed measures to reduce or control impacts, if any: (Include all meetings or consultations with tribes, archaeologists, anthropologists or other authorities.) **A site protection plan has been developed by a professional archaeologist. If any sites are discovered during logging operations, all work will cease in that area and a professional archaeologist will be called in.**

14. Transportation

a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any **Weihl Road, Red Bridge Road, Masterson Road, Teanaway Road, Highway 970.**

1) Is it likely that this proposal will contribute to an existing safety, noise, dust, maintenance, or other transportation impact problem(s)? **There will be a temporary increase in logging truck traffic and possible dust along roads during the project.**

b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop? **No**

c. How many parking spaces would the completed project have? How many would the project eliminate? **None**

d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).

1) How does this proposal impact the overall transportation system/circulation in the surrounding area, if at all? **All forest roads are for the purpose of forest management activities and will be maintained at or above Forest Practices Standards.**

e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe. **No**

f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur. **Between 6-12 loads of log will be hauled each day during the actual operations.**

g. Proposed measures to reduce or control transportation impacts, if any: **Haul roads will be posted where haul route meets public roads.**

15. Public Services

a. Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.**No**

b. Proposed measures to reduce or control direct impacts on public services, if any. **None**

16. Utilities

a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other. **None**

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed. **None**

C. SIGNATURE

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Completed by: _____ **Date:** _____
ERIN HAGGARD, Unit Forester

Reviewed by: _____ **Date:** _____
KEN MCNAMEE, District Manager

_____ **Date:** _____
JOHN HADDON, Management Forester

Approved by: _____ **Date:** _____
GEORGE B. SHELTON, Assistant Region Manager